

## RC CONTROLLED ESD CIRCUITS FOR MIXED-VOLTAGE INTERFACE

### ABSTRACT

- 5           The present invention relates an electrostatic discharge (ESD) protection device that is applied to a mixed voltage circuit assembly. The device comprises a RC controlled circuit subassembly and a field transistor, which the RC controlled circuit is coupled with the mixed voltage circuit assembly to substantially control the ESD protection device to be ON or OFF.
- 10   The field transistor is coupled between a first power supply and a second power supply of said mixed voltage circuit assembly, which is off on the condition of a normal operating condition and is conducting as an ESD event occurred.